

Complete Listing of the Claims

This Listing of Claims replaces all prior versions of claims in the Subject Application.

1. (Currently amended) A method of ~~controlling~~ expanding a population of human stem cells by promoting self-renewal of ~~[[a]] the population of human-compatible stem cells by reducing intracellular levels of p18~~ comprising:

delivering small RNA interfering sequences (siRNA) to the human-compatible stem cells for the reduction of p18 levels in the intracellular environment of the stem cells.

2. (Currently amended) The method of claim 1, wherein said human stem cells are ~~predominantly undifferentiated~~ adult stem cells.

3-5. (Canceled)

6. (Currently amended) The method of claim 1 further comprising implanting the siRNA treated ~~human-compatible~~ stem cells into a human~~[[;]]~~

~~wherein the implanted human stem cells are self-renewing.~~

7. (Currently amended) The method of claim 6, wherein said siRNA treated human stem cells are ~~predominantly undifferentiated~~ adult stem cells.

8-22. (Canceled)

23. (Currently amended) A method of stimulating self-renewal of a population of human-compatible stem cells by reducing intracellular levels of p18 comprising:
delivering small RNA interfering sequences (siRNA) to the human-compatible stem cells by one of electroporation or lentiviral vector for the reduction of p18 levels in the intracellular environment of the stem cells.
24. (Currently amended) The method of claim 23, wherein said human stem cells are ~~predominantly undifferentiated~~ adult stem cells.
25. (Canceled)
26. (Currently amended) The method of claim 23, further comprising implanting the siRNA treated human-compatible stem cells into a human[[:]]
~~wherein the implanted human stem cells are self-renewing.~~
27. (Currently amended) The method of claim 26, wherein said siRNA treated human stem cells are ~~predominantly undifferentiated~~ adult stem cells.
28. (Canceled)
29. (New) The method of claim 2, wherein said adult stem cells are hematopoietic stem cells.
30. (New) The method of claim 2, wherein said adult stem cells are non-hematopoietic stem cells.
31. (New) The method of claim 7, wherein said adult stem cells are hematopoietic stem cells.
32. (New) The method of claim 7, wherein said adult stem cells are non-hematopoietic stem cells.

33. (New) The method of claim 6, wherein the siRNA treated human stem cells contain no intracellular p18.
34. (New) The method of claim 24, wherein said adult stem cells are hematopoietic stem cells.
35. (New) The method of claim 24, wherein said adult stem cells are non-hematopoietic stem cells.
36. (New) The method of claim 27, wherein said adult stem cells are hematopoietic stem cells.
37. (New) The method of claim 27, wherein said adult stem cells are non-hematopoietic stem cells.
38. (New) The method of claim 26, wherein the siRNA treated human stem cells contain no intracellular p18.
39. (New) The method of promoting self-renewal of a population of human stem cells comprising:
expanding the population of human stem cells by delivering small RNA interfering sequences (siRNA) to the human stem cells for a reduction of p18 levels in the intracellular environment of the stem cells.